

AMERICAN CYANAMID COMPANY

1937 WEST MAIN STREET

STAMFORD, CONN.



TELEPHONE
STAMFORD 4-6141

December 10, 1946

Mr. Joshua Lederberg
Osborn Botanical Laboratory
Yale University
New Haven, Connecticut

Dear Josh:

In answer to your letter of December 8, the mutant strain of E. coli B which requires tryptophane and is resistant to ϕ (T₁) virus is extremely stable. No reverted colonies, with respect to the tryptophane requirement were obtained from about 1.5×10^{11} cells of this strain plated in tryptophane-free media, although one out of about 8×10^9 cells are able to grow at a somewhat subnormal rate with indole. I believe we gave Tatum a culture of this strain (#1-415B) as well as of the parent strain, E. coli B.

As to the other mutant strains, about all I could do would be to list those which are relatively stable since we have not compared the rate of reversion of the various strains. Among the relatively stable strains might be listed the methionine, sulfide, nicotinamide, arginine (series), indole, glutamine, uracil and thymine strains.

Sincerely,

AMERICAN CYANAMID CO.

Ray.

R. R. Roepke

RRR:agm